

AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended): A recessed unit equipment luminaire comprising:

a housing and a cover fitting over said housing to form an interior space in said housing, said cover having an opening to allow light from a directional lamp to be directed therethrough, said cover fitting over said housing such that said recessed equipment luminaire may be mounted behind a flat surface with only said cover visible;

a battery;

a charging/emergency switching circuit electrically connected to said battery; and

a reflector assembly mounted to said cover ~~along the light path between said directional lamp and said cover opening~~ and extending into said interior space of said housing, said reflector assembly having a reflective surface which redirects a portion of the light emitted from said directional lamp, said reflector assembly being substantially semi-frustoconical in shape and oriented partially around said directional lamp with a wide end proximate to said directional lamp.

said directional lamp having a light source and a reflectorized bowl,

said directional lamp being electrically connected to said battery through said charging/emergency switching circuit.

Claim 2-3 (canceled)

Claim 4 (currently amended): The unit equipment luminaire of Claim 3 1 wherein said reflector assembly has a plurality of planar reflecting surfaces which approximate said semi-frustoconical shape.

Claim 5 (original): The unit equipment luminaire of Claim 4 wherein said reflector assembly has a central reflector section and side reflector sections, said central reflector section sloping

downward from the top of said directional lamp to said cover opening, said side reflector sections located on either side of said central reflector section, said side reflector sections sloping downward and outward from said central reflector section to said cover opening.

Claim 6 (original): The unit equipment luminaire of Claim 5 wherein said central reflector section has a plurality of reflecting surfaces which redirect light to specific regions.

Claim 7 (original): The unit equipment luminaire of Claim 1 further having a louvered lens placed in the light path between said directional lamp and said cover opening.

Claim 8 (currently amended): The unit equipment luminaire of Claim 1 wherein said cover opening is circular, said reflector assembly is in a fixed relation with said directional lamp, and said reflector assembly further has a circular front edge which is rotatably engaged by said cover along said circular cover opening, rotation of said reflector assembly changes the focal point of said directional lamp.

Claim 9 (currently amended): The unit equipment luminaire of Claim 7 further having:
a second directional lamp mounted within said housing, said second directional lamp being electrically connected to said battery through said charging/emergency switching circuit;
a second reflector assembly mounted within said housing along the light path between said directional lamp and said cover opening and extending into said interior space of said housing,
said reflector assembly having a circular front edge and a reflective surface which redirects a portion of the light emitted from said second directional lamp;
said cover further having a second circular opening which rotatably engages said second reflector assembly circular front edge.

Claim 10 (currently amended): An emergency lighting system recessed behind a flat surface for illuminating a conical shaped area comprising:

a housing;

a directional lamp mounted within said housing, said directional lamp being aimed at said conical shaped area;

a cover having an opening to allow light from said directional lamp to be directed toward said conical shaped area mountable to said housing such that said housing may be mounted recessed behind a flat surface with said cover substantially aligned with said flat surface; and

a reflector assembly mounted within said housing ~~along the light path between said directional lamp and said cover opening~~, said reflector assembly being substantially semi-frustoconical in shape oriented with a wide end proximate to said directional lamp and having a reflective surface which redirects a portion of the light emitted from said directional lamp toward said conical shaped area[[:]], ~~wherein~~ said cover opening is circular, said reflector assembly is in a fixed relation with said directional lamp, and said reflector assembly further has a circular front edge which is rotatably engaged by said cover along said circular opening, whereby an alternate area may be illuminated by rotating said reflector assembly and said directional lamp with respect to said cover.

Claim 11 (previously presented): The emergency lighting system recessed behind a flat surface of Claim 10 wherein said reflector assembly has a plurality of planar reflecting surfaces which approximate said semi-frustoconical shape.

Claim 12 (previously presented): The emergency lighting system recessed behind a flat surface of Claim 11 wherein said reflector assembly has a central reflector section and side reflector sections, said central reflector section sloping downward from the top of the directional lamp to the cover opening, said side reflector sections located on either side of said central reflector

section, said side reflector sections sloping downward and outward from said central reflector section to said cover opening.

Claim 13 (currently amended): The emergency lighting system recessed behind a flat surface of Claim 12 wherein said central reflector section has a plurality of reflecting surfaces which direct light to specific regions in said conical shaped area.

Claim 14 (previously presented): The emergency lighting system recessed behind a flat surface of Claim 10 further having a louvered lens placed in the light path between said directional lamp and said cover opening.

Claim 15-20 (canceled)

Claim 21 (currently amended): A unit equipment luminaire for recessed mounting behind the plane of a wall for illuminating a path of egress area comprising:

- a housing mounted behind an opening in the plane of the wall;

- a battery;

- a charging/emergency switching circuit electrically connected to said battery;

- a substantially semi-frustoconical reflector assembly having a wide end and an narrow end;

- a wall mount lens ~~having~~ including a collecting reflector depending toward said housing;

- a directional lamp mounted within said housing,

- said directional lamp being located at said reflector assembly wide end and aimed generally toward said collecting reflector, said directional lamp being electrically connected to said battery through said charging/emergency switching circuit; and

- a cover mounted over said wall opening, said cover having an opening to allow light from said collecting reflector to exit said housing.

Claim 22 (original): The unit equipment luminaire of Claim 21 wherein said reflector assembly has a plurality of planar reflecting surfaces which approximate the semi-frustoconical shape.

Claim 23 (original): The unit equipment luminaire of Claim 22 wherein said reflector assembly has a central reflector section and side reflector sections, said side reflector sections located on either side of said central reflector section, said side reflector sections sloping outward from said central reflector section.

Claim 24 (original): The unit equipment luminaire of Claim 21 wherein said collecting reflector is concave shaped and extends from the top of said wide end of said reflector assembly to the bottom of said narrow end of said reflector assembly, said collecting reflector having an inner edge which follows the curvature of said reflector assembly and an outer edge which extends outward from said plane of the wall a distance proportional to the inward extension of said inner edge.

Claim 25 (canceled)

Claim 26 (original): A unit equipment housing assembly comprising:

a shallow rectangular shaped housing having a bottom wall, and side walls, said bottom wall having an opening along the intersection of said bottom wall and said back wall, each side wall having an inward projections which is parallel with said housing bottom wall thereby forming a channel between said projection and said bottom wall;

a battery box having a front wall, a back wall, side walls extending between said front wall and said back wall, and an open top, a flange extending around the upper edge of the front and side walls, and a wedge shaped protuberance extending outward and upward from said flange, said back wall extending upward above the upper edge of the front and side walls and having a mortise type slot in said upward extension; and

a thin rectangular chassis for supporting a charger/emergency switching circuit, said chassis having a tenon type projection along a back edge of the chassis;

said battery box being received within said housing bottom wall opening such that the bottom of said battery box flange contacts the inner surface of said housing bottom wall along the periphery of said bottom wall opening;

said chassis being received within said housing channels such that said a front edge of said chassis is held in place by the back edge of said battery box wedge shaped protuberance and said tenon projection mates with said mortise slot.

Claim 27 (original): A housing for mounting behind the plane of a wall or ceiling, said housing comprising:

a front portion, said front portion to lie substantially in the plane of the wall or ceiling;

at least one side wall having a front edge lying along said front portion, said side wall having a thickness gauge formed on the outside surface thereof, said thickness gauge indicating distance from said front edge; and

a plurality of break-away tabs located around the periphery of said front portion, said break-away tabs extending outward along the plane of said front portion.

Claim 28 (currently amended): A fully recessed unit equipment luminaire comprising:

at least one battery;

a battery box having walls for containing said battery and an opening for receiving said battery;

a shallow rectangular housing having walls defining a shallow rectangular chamber and an open front, one of said walls having an opening, said housing and said battery box being attached such that said housing wall opening is in alignment with said battery box opening;

a charger chassis having a charger/emergency switching circuit mounted thereto, said charger chassis being received within and attached to said housing over said battery box opening such that the said charger chassis provides a barrier between said housing chamber and said battery; a directional lamp electrically connected to said battery through said charger/emergency switching circuit, said lamp also is received within said housing; ~~and~~ a cover closing said housing open front, said cover having a light exit aperture positioned to allow light from said lamp to illuminate an area external to said luminaire[[.]] , and;
a wall mount lens including a collecting reflector depending toward said housing, said wall mount lens covers said light exit aperture and tapers up from a level surface of said cover to an outer edge of said collecting reflector.

Claim 29 (currently amended): A recessed unit equipment luminaire, comprising:

a housing, a battery, a switching circuit, a cover having a first and a second opening, a first reflector assembly in said first opening of said cover and a second reflector assembly in said second opening of said cover, said first and said second reflector assemblies being substantially semi-frustoconical in shape, wherein said first reflector assembly has having a first directional lamp proximate to a wide end of said first reflector assembly and wherein said second reflector assembly has having a second directional lamp proximate to a wide end of said second reflector assembly, said first and said second directional lamp electrically connected to said battery through said switching circuit.

Claim 30 (previously presented): The recessed equipment luminaire of Claim 29 wherein said first and said second reflector assembly are rotateably mounted on said cover.

Claim 31 (previously presented): The recessed equipment luminaire of Claim 30 wherein each of said first and said second reflector assemblies have a central reflector section and a first and

second side reflector section, said central reflector section extending from said cover to said directional lamp, said first and second side reflector sections extending upwardly from said central reflector section to said cover opening.

Claim 32 (canceled)

Claim 33 (previously presented): The recessed equipment luminaire of Claim 30 wherein said first and said second reflector assembly each have a wall mount lens including a collecting reflector formed therein.

Claim 34 (previously presented): A recessed unit equipment luminaire comprising a housing, a battery box retained in said housing, a switching circuit, a first and a second removable reflector assembly rotateably mounted on a cover attached to said housing, said first reflector assembly having a first substantially semi-frustoconical reflector formed therein, said second reflector assembly having a second substantially semi-frustoconical reflector ~~retained~~ formed therein, said first reflector assembly having a first directional lamp proximate a wide end of said first substantially semi-frustoconical reflector and said second reflector assembly having a second directional lamp proximate a wide end of said second substantially semi-frustoconical reflector, said first and said second directional lamp electrically connected to said battery by said switching circuit.

Claim 35 (canceled)

Claim 36 (currently amended): The luminaire of Claim 34 wherein each of said first and said second reflector assembly has a wall mount lens with a generally concave collecting reflector extending to an exit aperture, said collecting reflector emitting light through said exit aperture in an elongated area shape.

Claim 37 (previously presented): The luminaire of Claim 34 wherein said battery box is retained within an aperture in a side wall of said housing.

Claim 38 (previously presented): The luminaire of Claim 34 wherein said cover further has a peripheral outer edge designed for recess mounting of said luminaire in a wall, said cover mounted on an exterior surface of said wall, said housing, battery box and switching circuit maintained on an interior surface of said wall.

Claim 39 (previously presented): A recessed unit equipment luminaire comprising:
a housing, wherein said housing has two shallow rectangular side walls, a top wall, a bottom, and a back wall, said bottom wall has an opening;
a cover having one or more circular openings wherein each opening has a rotatably engaged frustoconical reflector assembly, said cover extending beyond each of said side walls, top wall and bottom; said reflector assembly having a directional lamp mounted therein so that a portion of said directional lamp is enshrouded by a wide end of said frustoconical reflector assembly;
and
a battery box engaging said housing around said opening in said bottom wall.

Claim 40 (new): An emergency lighting system recessed into a wall for illuminating a conical shaped area on a floor comprising:

a housing;

a directional lamp mounted within said housing, said directional lamp being aimed at said conical shaped area;

a reflector assembly mounted within said housing, said reflector assembly being substantially semi-frustoconical in shape oriented with a wide end proximate to said directional lamp and having a reflective surface which redirects a portion of the light emitted from said

directional lamp toward said conical shaped area, said conical shaped area being illuminated to at least 1 foot-candle and extending at least 30 feet horizontally from the vertical position of said emergency lighting system with respect to said floor.

Claim 41 (new): An emergency lighting system recessed into a ceiling for illuminating a conical shaped area on a floor comprising:

- a housing;

- a directional lamp mounted within said housing, said directional lamp being aimed at said conical shaped area;

- a reflector assembly mounted within said housing, said reflector assembly being substantially semi-frustoconical in shape oriented with a wide end proximate to said directional lamp and having a reflective surface which redirects a portion of the light emitted from said directional lamp toward said conical shaped area, said conical shaped area being illuminated to at least 1 foot-candle and extending at least 40 feet horizontally from the vertical position of said emergency lighting system with respect to said floor.